

What is claimed is:

1. A phantom for evaluating nondosimetric functions in radiation therapy installation having a patient couch and a gantry with a head thereon for generating a multi-leaf collimated beam, wherein the beam is directed toward said couch at an orientation dictated by relative orientations of said couch and gantry, comprising:

a base adapted for disposition on said couch; and

a component mounted to said base for rotation in accordance with said relative orientations of the couch and gantry, said component incorporating a plurality of known geometrical structures corresponding in shape to said multi-leaf collimated beam whereby upon irradiating said component with said beam to obtain an image thereof said nondosimetric functions may be evaluated by comparing the image of said component with said known geometrical structures and identifying discrepancies therebetween.
2. The phantom of claim 1, wherein said base further includes a levelling mechanism.
3. The phantom of claim 1, wherein said base further includes a level indicator.
4. The phantom of claim 1, wherein said plurality of known geometrical structures includes a tapered cube-shaped component.
5. The phantom of claim 4, wherein said plurality of known geometrical structures includes pyramid-shaped component disposed within said cube-shaped component.
6. The phantom of claim 5, wherein said plurality of known geometrical structures includes a further tapered cube-shaped component disposed within said pyramid -shaped component
7. The phantom of claim 6, wherein said further cube-shaped component includes a centrally disposed ball for aligning said phantom with the isocenter of said beam.
8. The phantom of claim 1, wherein said geometrical structures are fabricated from acrylic.

9. The phantom of claim 1, wherein said geometrical structures are fabricated from plastic with near-TEM properties.
10. The phantom of claim 1, wherein said geometrical structures are fabricated from tissue-equivalent material.
11. The phantom of claim 1, wherein said geometrical structures are fabricated from materials with magnetic resonance properties.
12. The phantom of claim 1, wherein air occupies space between each of said geometrical structures.
13. The phantom of claim 1, wherein oil occupies space between each of said geometrical structures.
14. The phantom of claim 1, wherein said base includes a z-wire to facilitate proper orientation of the phantom with said radiation treatment system.
15. The phantom of claim 1, wherein said base includes laser registration marks to facilitate proper orientation of the phantom with said radiation treatment system.